



SPYWOLF

Security Audit Report



Completed on
May 30, 2023

@SPYWOLFNETWORK



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SPYWOLF.CO





OVERVIEW

This audit has been prepared for **King Bean** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

”





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King Bean



PROJECT DESCRIPTION

According to their whitepaper:

King Bean is as simple project with a simple plan. A plan to out live all the other 0% tax meme coins, that have zero funds to ensure they have a future after launch.

With minimal taxes making it easy to buy, sell and trade for profit. BNB rewards for those that remain loyal to him. But, most importantly funds to continuously market and burn our own token.

Release Date: Presale starts in June, 2023

Category: Meme token



CONTRACT INFO

Token Name
King Bean

Symbol
KINGB

Contract Address

0xdc481E5E8D56D37BC6567b75a7f74Bb34562044A

Network

Binance Smart Chain

Language

Solidity

Deployment Date

May 25, 2023

Verified?

Yes

Total Supply

420,690,000,000

Status

Not launched

TAXES

Buy Tax

2%

Sell Tax

2%

*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



TOKEN TRANSFERS STATS

| | |
|-------------------------|--------------------|
| Transfer Count | 4 |
| Uniq Senders | 2 |
| Uniq Receivers | 4 |
| Total Amount | 504828000000 KINGB |
| Median Transfer Amount | 42069000000 KINGB |
| Average Transfer Amount | 126207000000 KINGB |
| First transfer date | 2023-05-25 |
| Last transfer date | 2023-05-25 |
| Days token transferred | 1 |

SMART CONTRACT STATS

| | |
|-----------------------|--|
| Calls Count | 8 |
| External calls | 8 |
| Internal calls | 0 |
| Transactions count | 8 |
| Uniq Callers | 1 |
| Days contract called | 1 |
| Last transaction time | 2023-05-25 04:07:24 UTC |
| Created | 2023-05-25 03:57:24 UTC |
| Create TX | 0x8b45f4570879839db04a3d38dbc4e2128b0f0138cec4d3ae9e4cd4a7b463b953 |
| Creator | 0x8d4fd27ea95dc2e62a561a65fd53633d82c2deb1 |



VULNERABILITY CHECK

| | |
|--|--------|
| Design Logic | Passed |
| Compiler warnings. | Passed |
| Private user data leaks | Passed |
| Timestamp dependence | Passed |
| Integer overflow and underflow | Passed |
| Race conditions and reentrancy. Cross-function race conditions | Passed |
| Possible delays in data delivery | Passed |
| Oracle calls | Passed |
| Front running | Passed |
| DoS with Revert | Passed |
| DoS with block gas limit | Passed |
| Methods execution permissions | Passed |
| Economy model | Passed |
| Impact of the exchange rate on the logic | Passed |
| Malicious Event log | Passed |
| Scoping and declarations | Passed |
| Uninitialized storage pointers | Passed |
| Arithmetic accuracy | Passed |
| Cross-function race conditions | Passed |
| Safe Zeppelin module | Passed |
| Fallback function security | Passed |



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

⚠ Low Risk

Owner can set buy/sell fees up to 20%

Combined buy+sell = 40%.

When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make.

Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
function updateLiquidityFee(uint16 _sellLiquidityFee, uint16 _buyLiquidityFee) external onlyOwner {
    require(_sellLiquidityFee+sellMarketingFee+sellRewardFee <= 200, "sell fee <= 20%");
    require(_buyLiquidityFee+buyMarketingFee+buyRewardFee <= 200, "buy fee <= 20%");
    emit UpdateLiquidityFee(_sellLiquidityFee, _buyLiquidityFee, sellLiquidityFee, buyLiquidityFee);
    sellLiquidityFee = _sellLiquidityFee;
    buyLiquidityFee = _buyLiquidityFee;
}

function updateMarketingFee(uint16 _sellMarketingFee, uint16 _buyMarketingFee) external onlyOwner {
    require(_sellMarketingFee+sellLiquidityFee+sellRewardFee <= 200, "sell fee <= 20%");
    require(_buyMarketingFee+buyLiquidityFee+buyRewardFee <= 200, "buy fee <= 20%");
    emit UpdateMarketingFee(_sellMarketingFee, _buyMarketingFee, sellMarketingFee, buyMarketingFee);
    sellMarketingFee = _sellMarketingFee;
    buyMarketingFee = _buyMarketingFee;
}

function updateRewardFee(uint16 _sellRewardFee, uint16 _buyRewardFee) external onlyOwner {
    require(_sellRewardFee+(sellLiquidityFee)+(sellMarketingFee) <= 200, "sell fee <= 20%");
    require(_buyRewardFee+(buyLiquidityFee)+(buyMarketingFee) <= 200, "buy fee <= 20%");
    emit UpdateRewardFee(_sellRewardFee, _buyRewardFee, sellRewardFee, buyRewardFee);
    sellRewardFee = _sellRewardFee;
    buyRewardFee = _buyRewardFee;
}
```

- Recommendation:
 - Considered as good tax deduction practice is buy and sell fees combined not to exceed 25%.



FOUND THREATS

⚠ Medium Risk

Owner can change contract's auto swap settings.
If swapTokensAtAmount is set to very low number, the contract may halt on sell and cause selling to fail for all users.

```
function setSwapTokensAtAmount(uint256 amount) external onlyOwner {  
    require(amount > 0, "swapTokensAtAmount > 0");  
    emit UpdateSwapTokensAtAmount(amount, swapTokensAtAmount);  
    swapTokensAtAmount = amount;  
}
```

- Recommendation:
 - Ensure that swapTokensAtAmount's value is always above 1 token (**consider token decimals**).



Informational

Owner can exclude address from max transaction limit.

```
function excludeFromMaxTransactionAmount(address account, bool isEx)
    external
    onlyOwner
{
    require(isExcludedFromMaxTransactionAmount[account] != isEx, "already");
    isExcludedFromMaxTransactionAmount[account] = isEx;
    emit ExcludedFromMaxTransactionAmount(account, isEx);
}
```

Owner can withdraw any tokens from contract with exception of KINGB token. When this function is present, in cases tokens sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```
function withdrawETH() external onlyOwner {
    (bool success, ) = address(owner()).call{value: address(this).balance}("");
    require(success, "Failed in withdrawal");
}
function withdrawToken(address token) external onlyOwner {
    require(address(this) != token, "Not allowed");
    IERC20(token).safeTransfer(owner(), IERC20(token).balanceOf(address(this)));
}
```

Owner can exclude address from dividends.

```
function excludeFromDividends(address account) external onlyOwner {
    DividendTokenDividendTracker(dividendTracker).excludeFromDividends(account);
}
```



Informational

Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function excludeFromFees(address account, bool excluded) public onlyOwner {  
    require(!_isExcludedFromFees[account] != excluded, "already");  
    _isExcludedFromFees[account] = excluded;  
  
    emit ExcludeFromFees(account, excluded);  
}
```

Owner can change max transaction limit but cannot set it below 0.01% of total supply.

```
function updateMaxTransactionAmount(uint256 _maxTransactionAmount)  
    external  
    onlyOwner  
{  
    require(_maxTransactionAmount >= totalSupply() / 10000,  
        "maxTransactionAmount >= total supply / 10000");  
    emit UpdateMaxTransactionAmount(_maxTransactionAmount, maxTransactionAmount);  
    maxTransactionAmount = _maxTransactionAmount;  
}
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

King Bean

GOOD PRACTICES FOUND

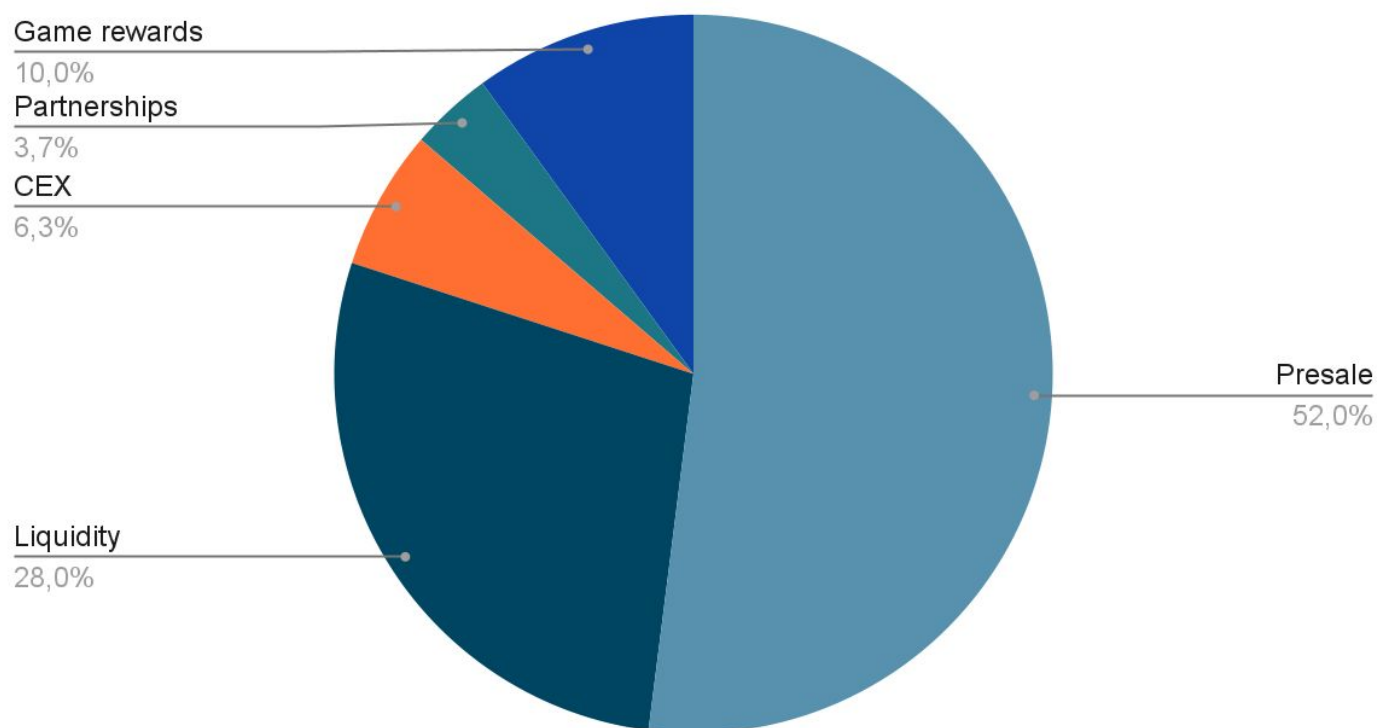
- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner can set a transaction limit, but can't lower it than 0.01% of total supply
- ✓ The smart contract utilizes "SafeMath" to prevent overflows



The following tokenomics are based on the project's whitepaper and/or website:

- 52% - Presale
- 28% - Liquidity
- 6.3% - CEX
- 3.7% - Partnerships
- 10% - Game rewards

Tokens distribution



TOKENOMICS



THE TEAM

! The team is anonymous

KYC INFORMATION

! No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





WEBSITE

Website URL
<https://kingbean.io/>

Domain Registry
<https://www.domainbox.com>

Domain Expiration
2024-05-11

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

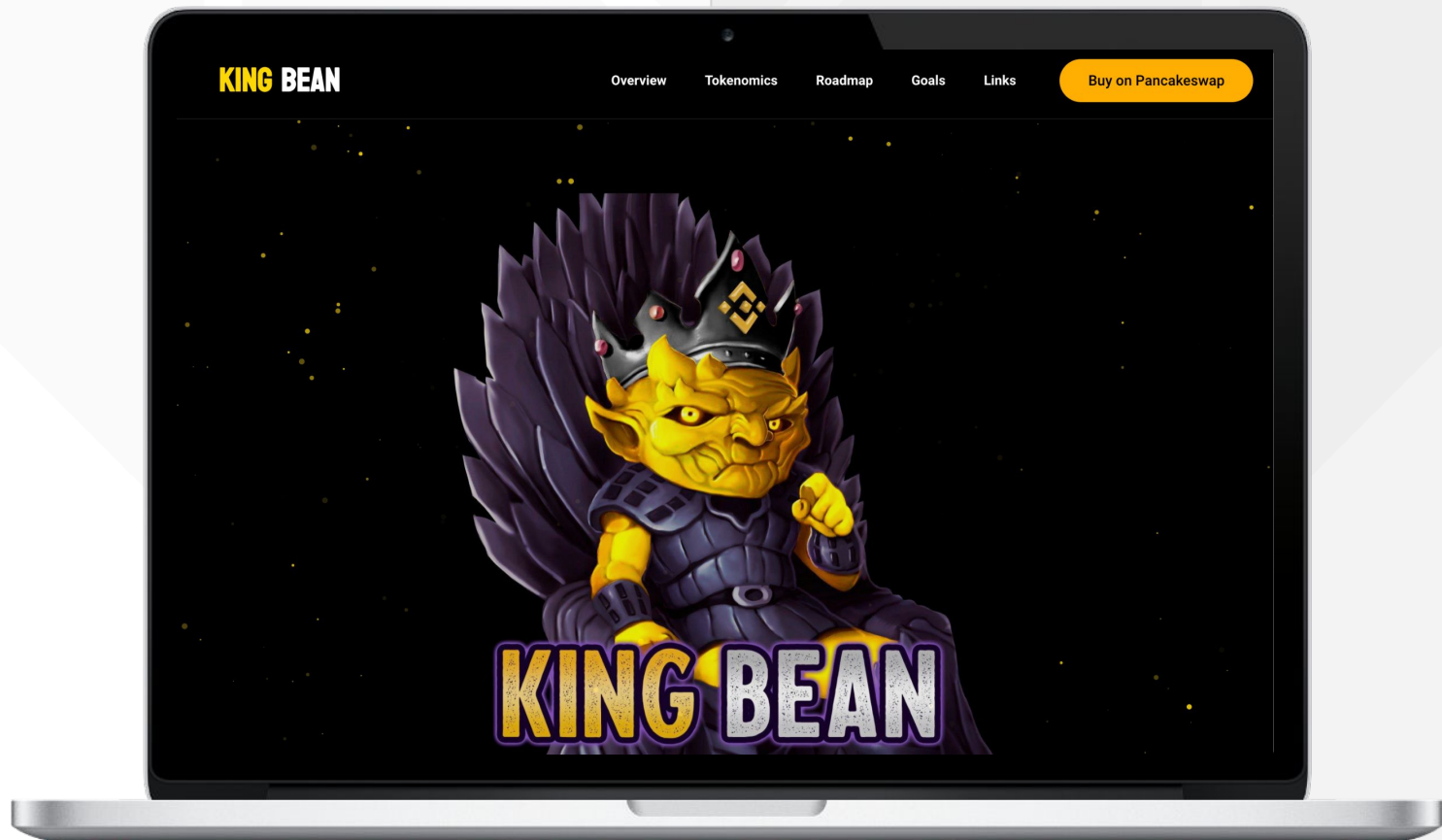
Design
Very nice color scheme and overall layout.

Content
The information helps new investors understand what the product does right away.
No grammar mistakes found.

Whitepaper
No

Roadmap
Yes, goals set without time frames.

Mobile-friendly?
Yes



kingbean.io



SOCIAL MEDIA

& ONLINE PRESENCE



ANALYSIS

Project's social media pages are new



Twitter

@onlyKingBean

- 2 followers
- 2 total posts
- New account



Discord

- Not available



Telegram

@KingBeanOfficial

- 8 members
- Active mod



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

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ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.